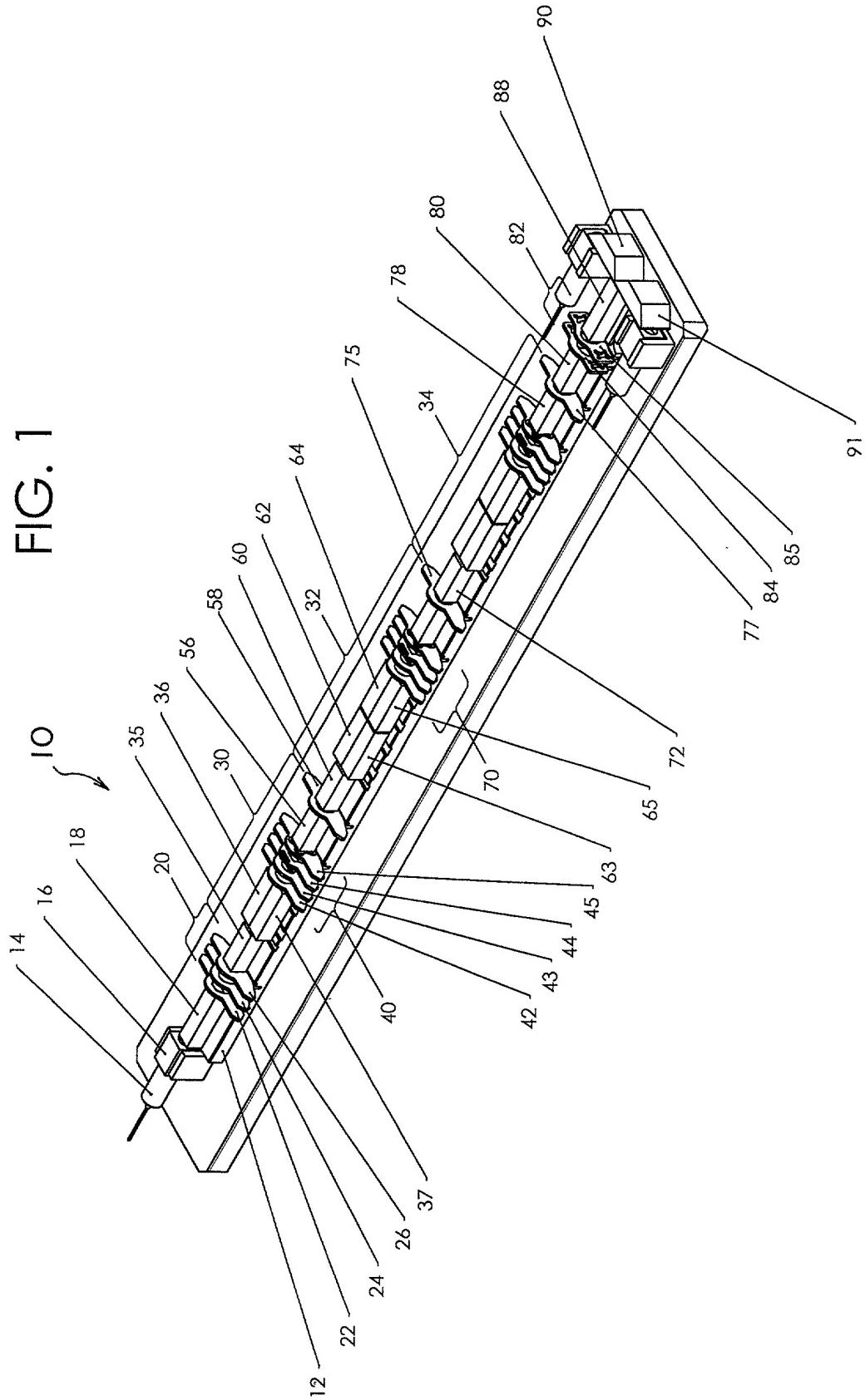


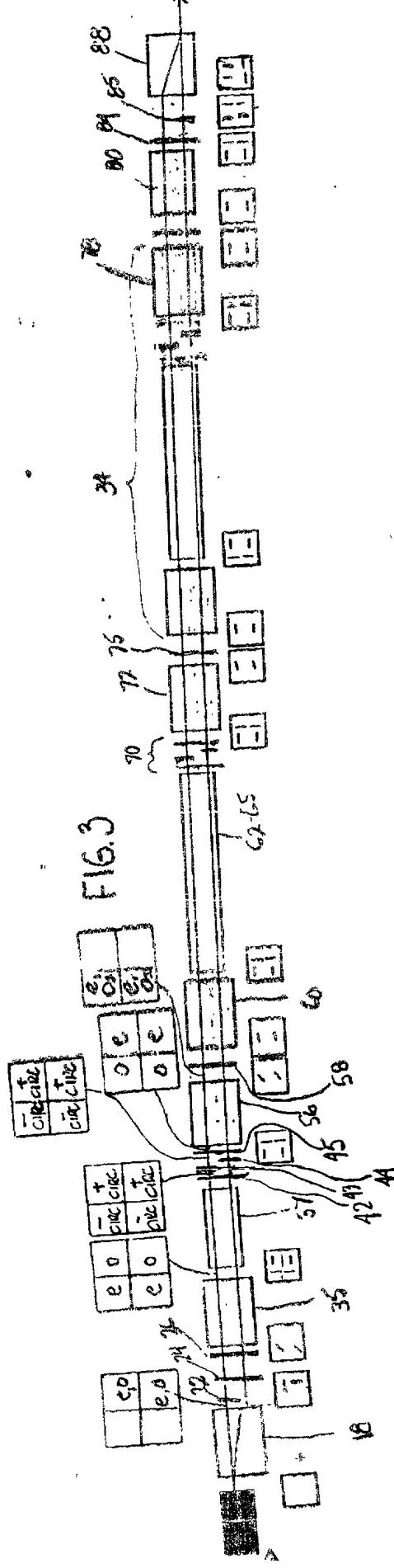
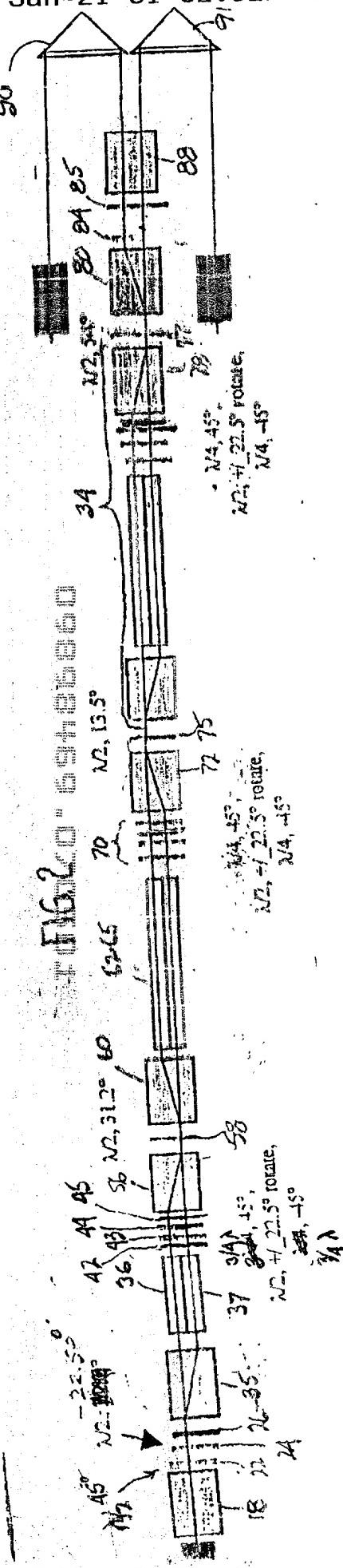
FIG. 1



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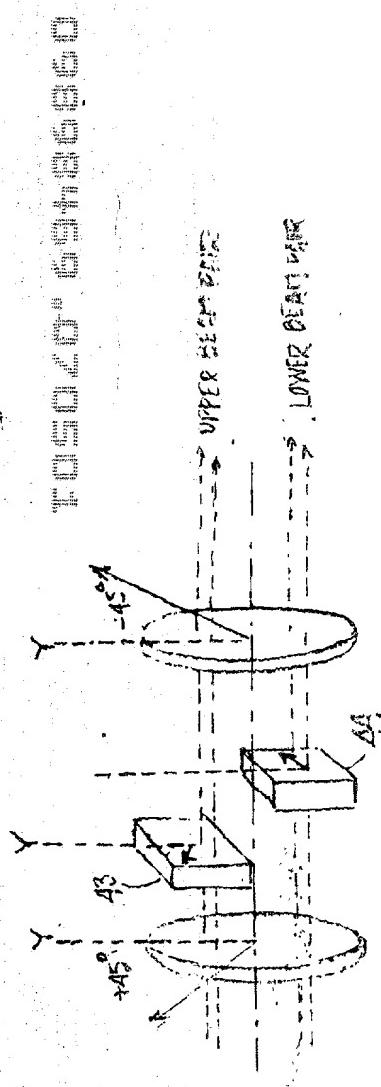
P. O. H.



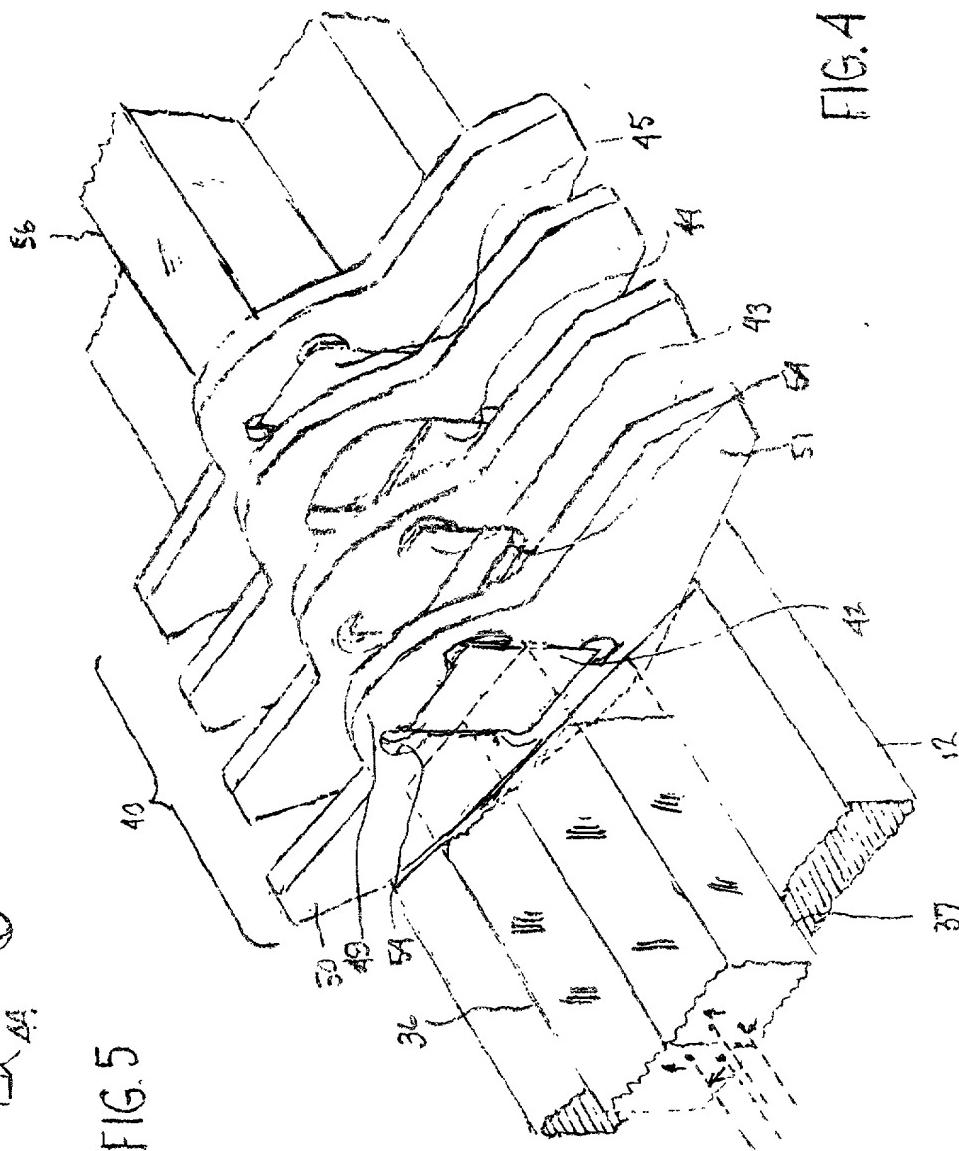
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P. 0. 2



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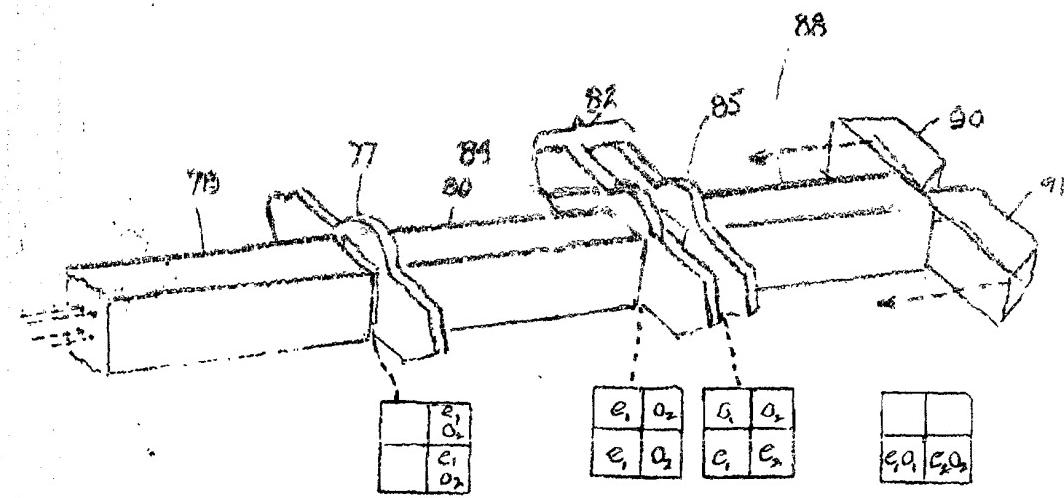
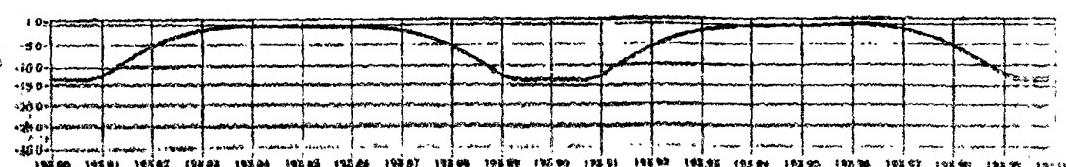


FIG. 6

stage 1: channel separation



stage 2: passband flattening



stage 3: crosstalk reduction

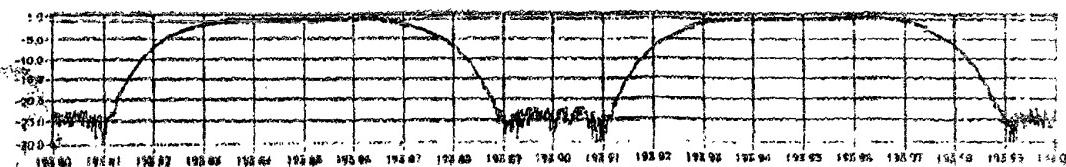


Figure 7 Effect of multiple stages on interleaver transmission characteristics

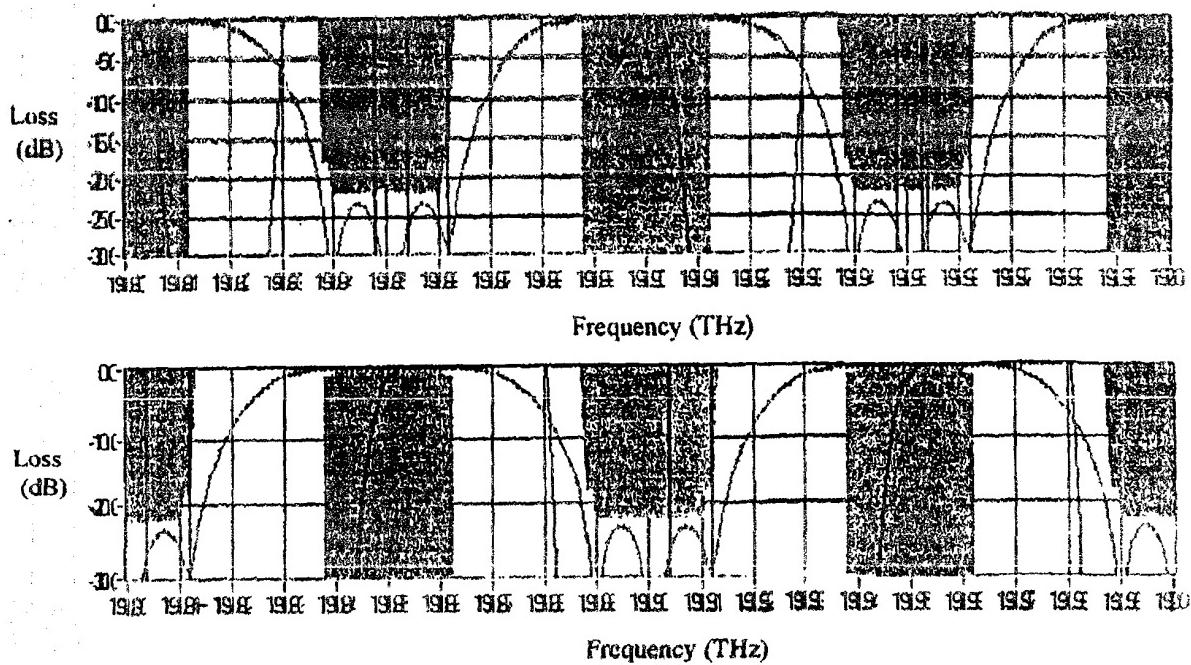


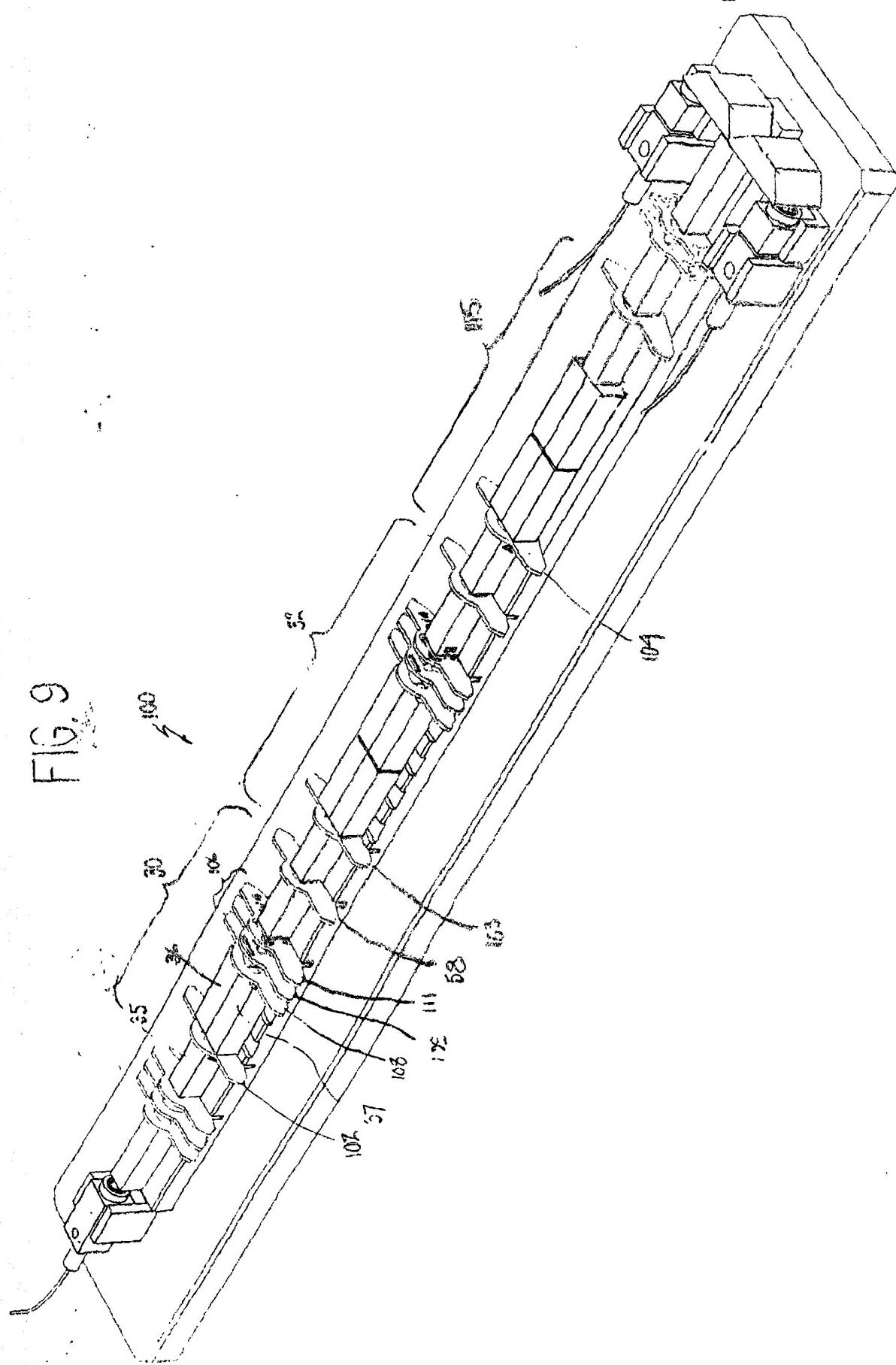
Figure 8 Optical response of a three stage 50 GHz interleaver

Jun-21-01 02:33P PACIFIC INFRARED

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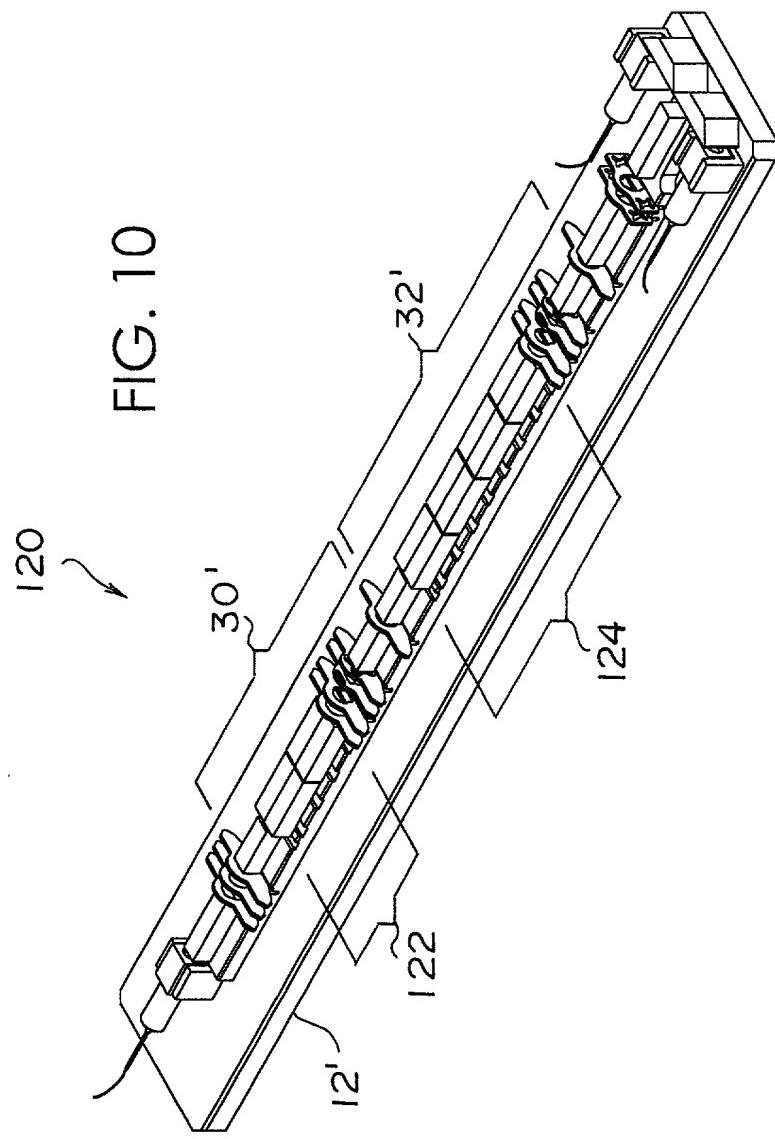
P.O. 3

FIG. 9

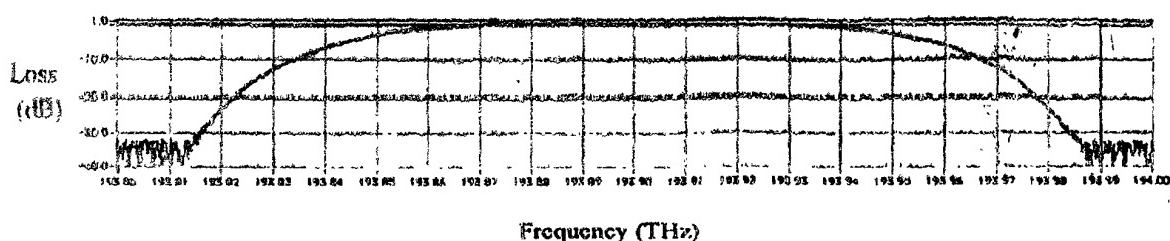


U.S. Patent Office

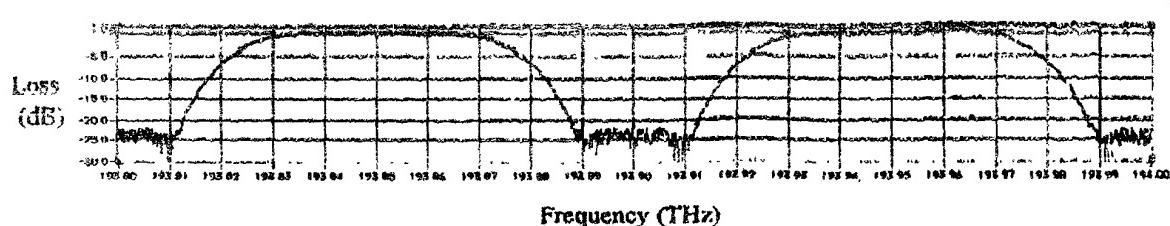
FIG. 10



100 GHz



50 GHz



25 GHz

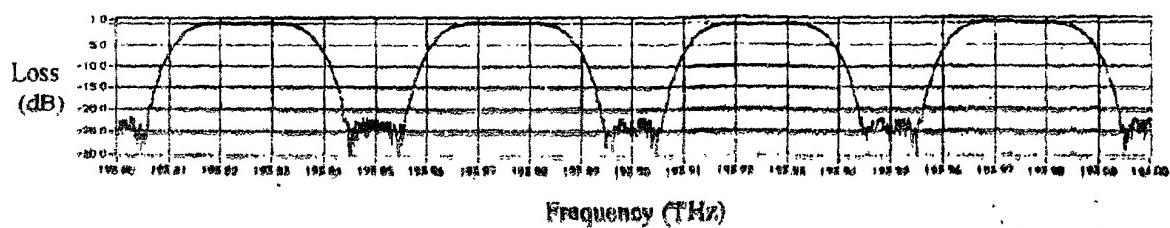


Figure 11: Comparison of 100, 50, 25 GHz interleaver responses (one output only)

U.S. Pat. No. 5,945,855 Filed: Oct. 12, 1998

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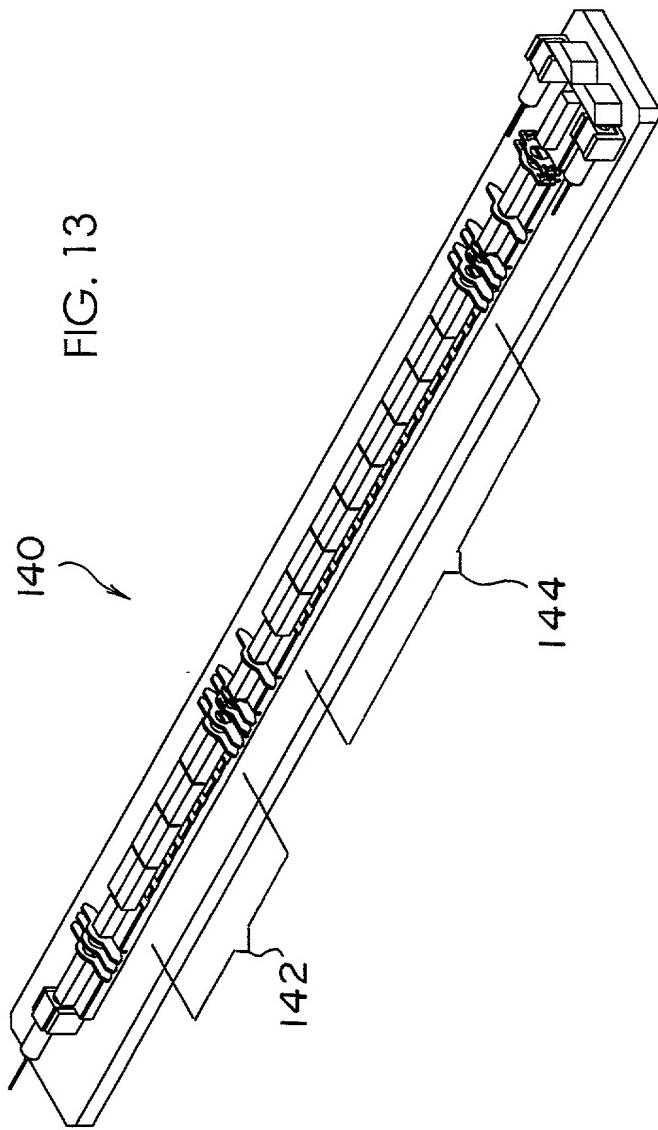
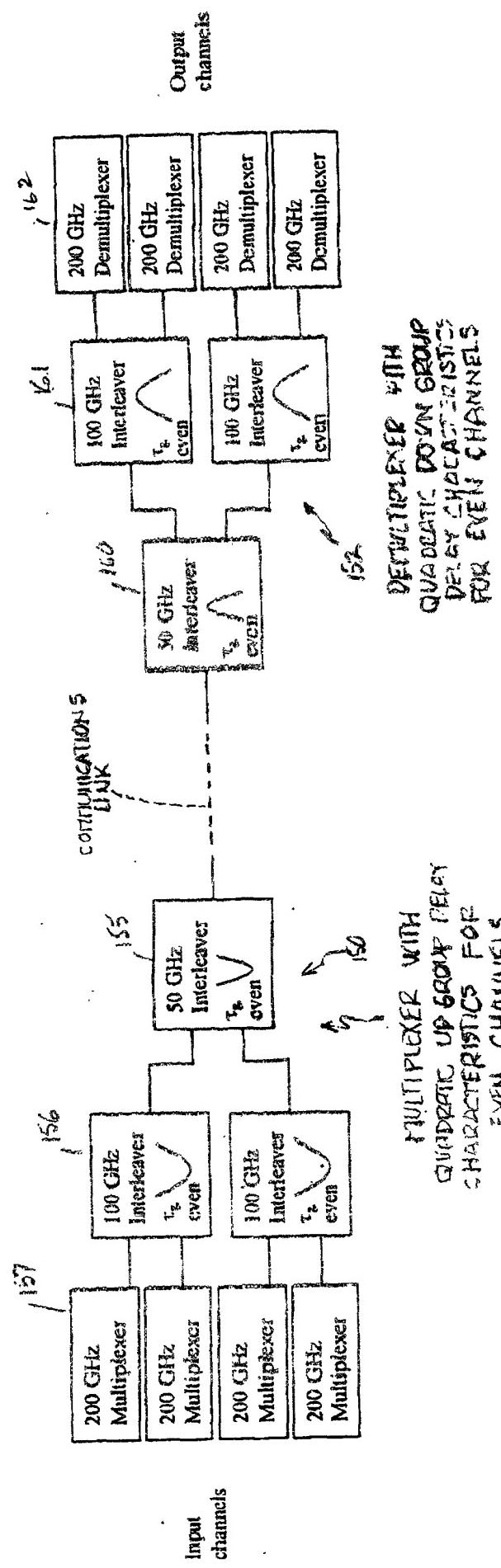
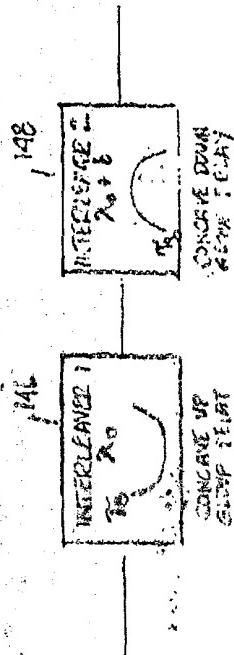


FIG. 13

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142
144

FIG. 14 "G" Schematic



DEMUXPLEXER WITH
QUADRATIC DOWN SHIFT
DELAY CHARACTERISTICS
FOR EVEN CHANNELS

MULTIPLEXER WITH
QUADRATIC UP SHIFT DELAY
CHARACTERISTICS FOR
EVEN CHANNELS

FIG. 15

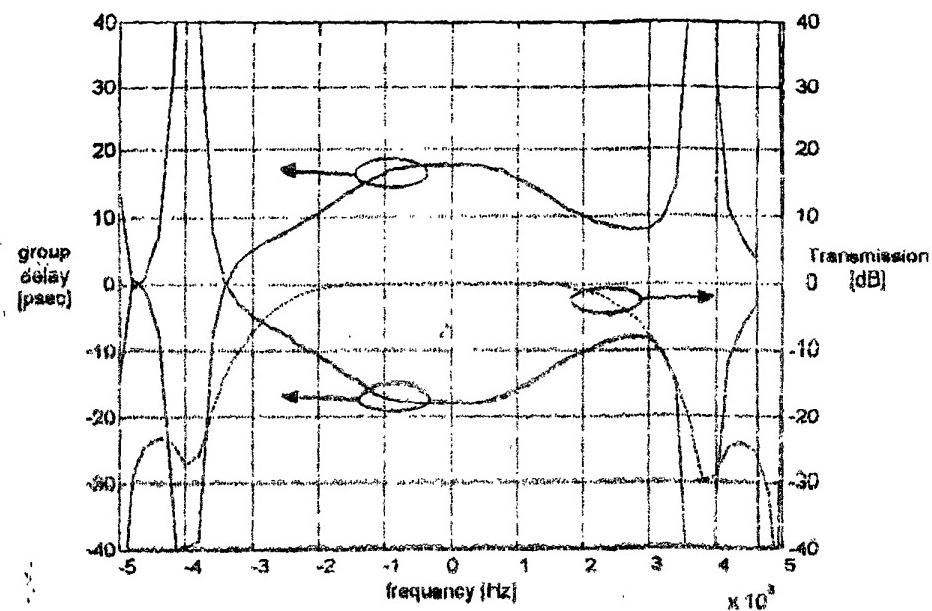


Figure 16 Calculated group delay for even and odd wavelength channels.

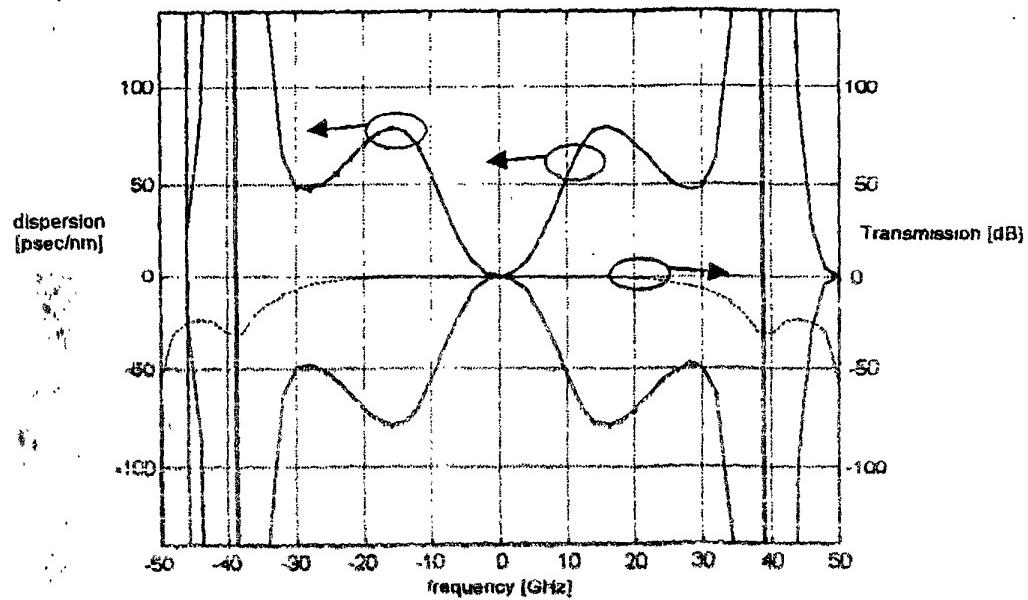
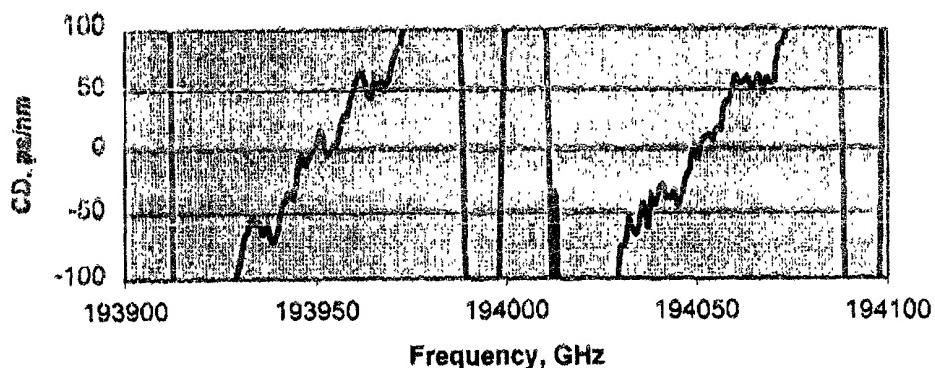
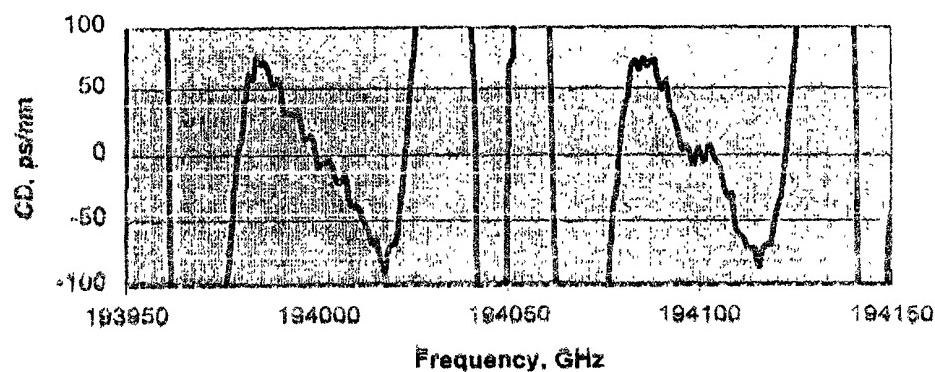


Figure 17 Calculated chromatic dispersion for even and odd wavelength channels.

**50 GHz Interleaver Chromatic Dispersion
Type 1 Channel 2**

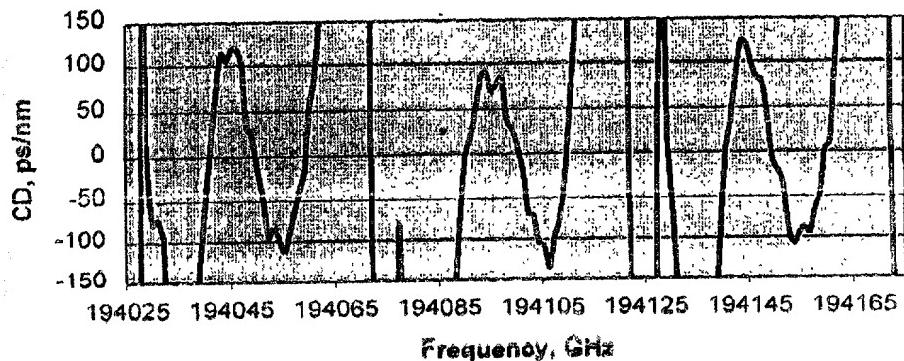


**50 GHz Interleaver Chromatic Dispersion
Type 1 Channel 1**

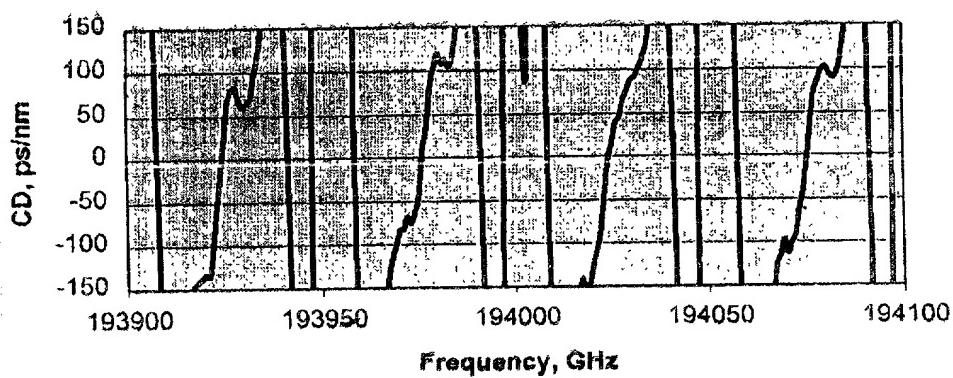


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Figure 27: CD of 50 GHz interleaver

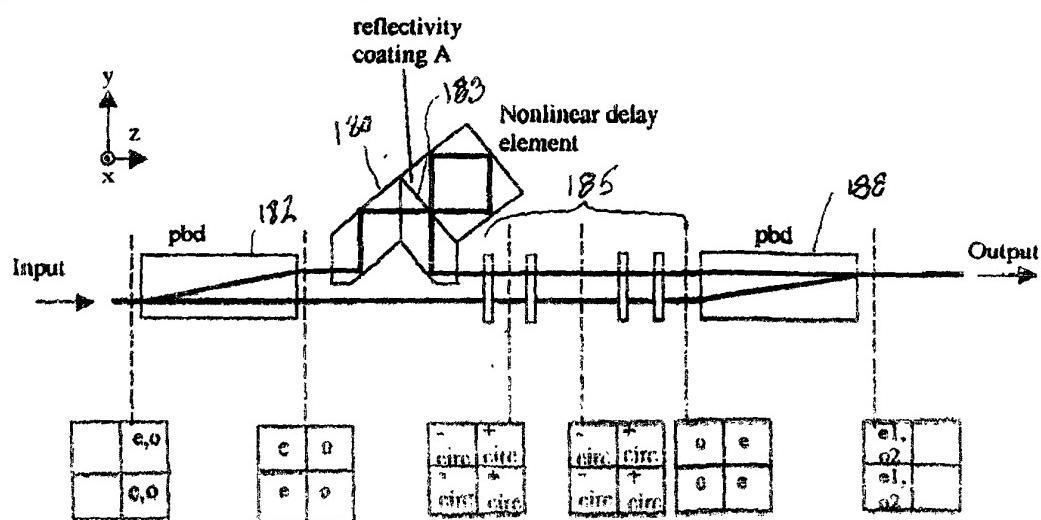
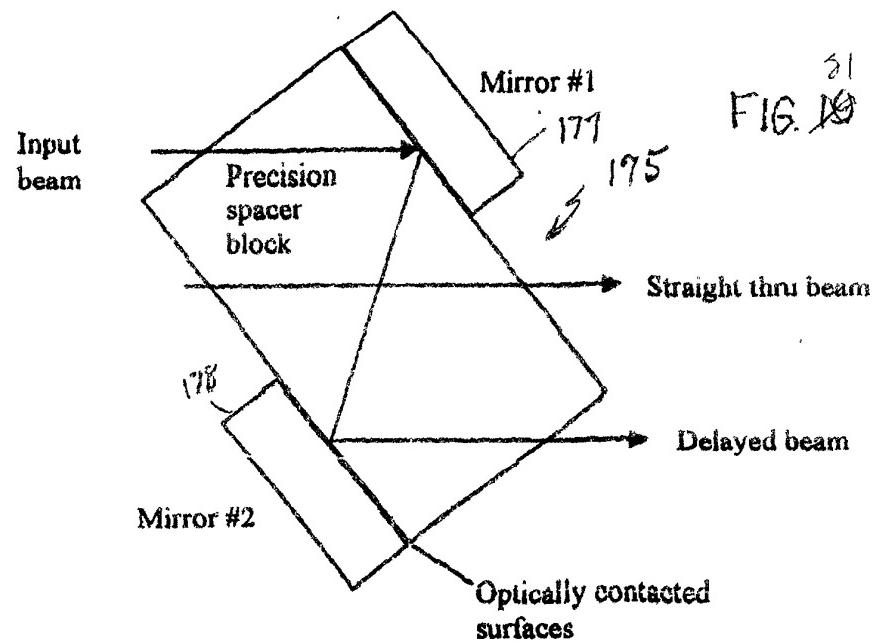
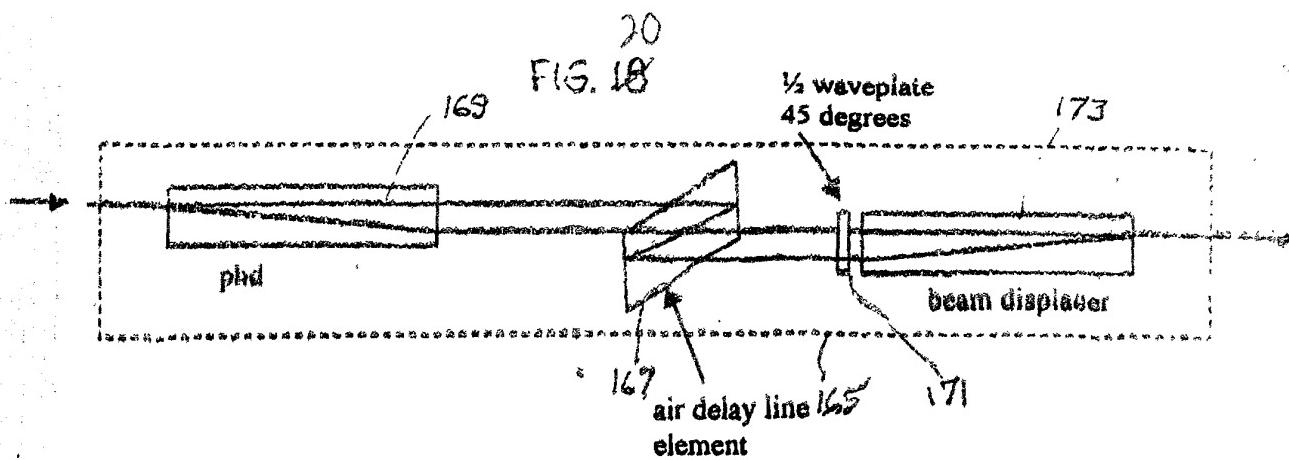
**25 GHz Chromatic Dispersion
Type 1 Channel 1**



**25 GHz Chromatic Dispersion
Type 1 Channel 2**



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Figure 27: CD of 25 GHz interleaver



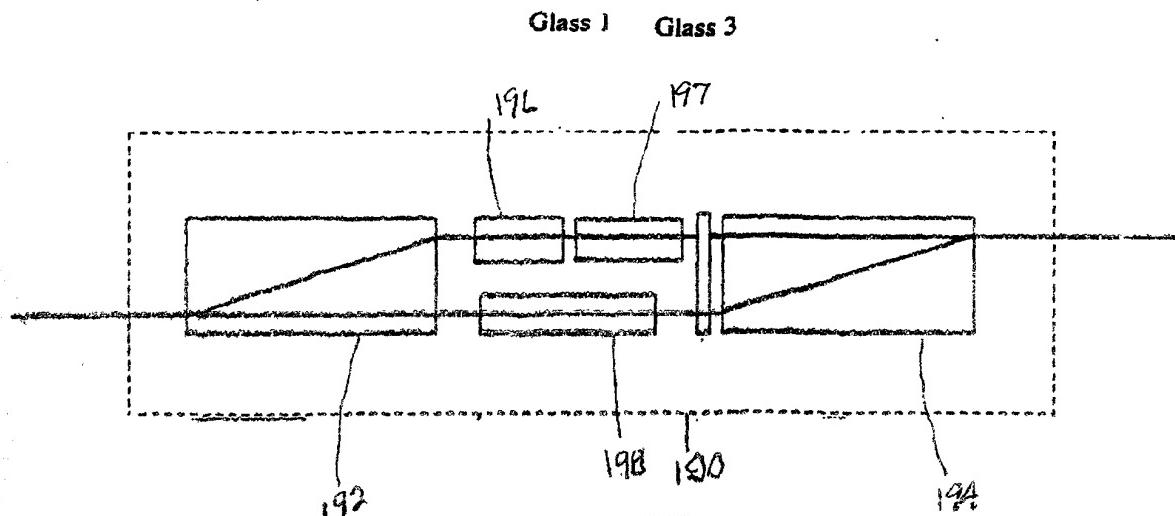


FIG. X 23